



June 16, 2008

Sent via email

Eric Johnson  
U.S. Environmental Protection Agency  
Region 8, 8ENF-T  
999 18<sup>th</sup> Street, Suite 300  
Denver, Colorado 80202-2466

RE: Progress report for May 2008 activities - Hecla Mining Company Apex Site (EPA ID No. UT982589848, Docket No. RCRA-8-99-06)

Dear Mr. Johnson:

Per paragraph 64 of the Order, enclosed is a copy of the May 2008 progress report for your records.

If you have any questions please do not hesitate to call me at (208) 769-4112 or e-mail at [pglader@hecla-mining.com](mailto:pglader@hecla-mining.com).

Sincerely,

A handwritten signature in black ink, appearing to read "P. Glader", written over a horizontal line.

Paul L. Glader  
Manager Environmental Services

Encl

Cc: HMC Legal Dept (w/o attachments)  
John Jacus, Esq. (DG&S)



June 16, 2008

Sent via U.S. Mail

Glenn Rogers, Chairman.  
Shivwits Band of Paiute Indian Tribe  
6060 West 3650 North  
Ivins, Utah 84738

John Krause  
Bureau of Indian Affairs Phoenix Area Office  
U.S. Department of Interior  
P.O. Box 10  
Phoenix, AZ 85001

Kelly Youngbear  
BIA Southern Paiute Agency  
P.O. Box 720  
St. George, UT 84771

RE: Progress report for May 2008 activities - Hecla Mining Company Apex Site (EPA ID  
No. UT982589848, Docket No. RCRA-8-99-06)

Dear Chairman Rogers, Mr. Krause and Ms. Youngbear:

Per paragraph 64 of the Order, enclosed is a copy of the April 2008 progress report for your records.

If you have any questions please do not hesitate to call me at (208) 769-4112 or e-mail at [pglader@hecla-mining.com](mailto:pglader@hecla-mining.com).

Sincerely,

A handwritten signature in black ink, appearing to read "P. Glader", written over a horizontal line.

Paul L. Glader  
Manager Environmental Services

Encl

Cc: HMC Legal Dept. (w/o attachments)  
John Jacus, Esq. (DG&S) (w/o attachments)  
Eric Johnson (USEPA, Region VIII) (w/o attachments)



June 16, 2008

**MEMORANDUM TO:** Apex File  
**COPIES TO:** distribution  
**FROM:** Paul Glader  
**SUBJECT:** Progress Report No. 49 for period ending April 30, 2008;  
Pond 2 Final Closure - Apex Site, Washington County, Utah

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### Summary

The monthly visual inspection, per the long term monitoring plan, was conducted on May 3. No unusual conditions were noted.

### Discussion

Surface Monitor Results To Date – The settlement monitoring monuments were surveyed by Alpha Engineering on March 12. Since monitoring of the top surface began (Jan 4, 2006), there has been no appreciable movement in the surface monuments at the Apex site. There are no concerns to date with settlement. As expected with long-term consolidation, the data shows that settlement rates are decreasing over time.

Erosion repair was started March 19 and concluded March 21. The primary area of repair was the northern edge of the area. The entire site was revegetated between March 24 and March 26.

### Work Planned for Next Period

Visual inspection of site

Settlement monument survey – quarterly basis

### Cost and Schedule

Committed costs in May 2008 were \$141. Total project to date committed is approximately \$1,286,000.

### Supplemental Attachments

May 2008 site inspection report

May 2008 cost report

# Annual Site Inspection Summary Sheet - Apex Site - Pond 2

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

## Form 1 of 4 - Summary

Date: <u>5-3-08</u>			
Inspector: <u>TRUMAN</u>			
Cover System Component	Potential Problem	Allowable Limits	Limits Potentially Exceeded
Site Perimeter	Erosion or Fencing Issues	NA	NA
Cover System (outslopes, top, rock)	Subsidence	Minor: ponding < 1" some gullying / erosion	Yes <input checked="" type="checkbox"/> * No <input type="checkbox"/>
		Significant: see Table 2	Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
	Embankment Slope Stability	excessive movement or surface cracks > than 1"	Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
	Gullying	on top	depth > 1" Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
		at embankment crest or on outslope	depth > 2" Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
		w/in normal flow channel in diversion channel	no gullying allowed Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
		w/in diversions at toe of impoundment outslope	no gullying allowed Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
		in diversion channel at any other location	NA NA
	Erosion Protection Stability	rock subsiding or missing	Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
	Seepage	no colored seepage allowed (red, blue, yellow w/ crystallization)	Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>
Runoff Control System	Diversion Channel	rock in place, channel not moving, fence stable	Yes <input checked="" type="checkbox"/> * No <input type="checkbox"/>
	Diversion Swales	rock in place, no silting in or head cutting	Yes <input checked="" type="checkbox"/> * No <input type="checkbox"/>
	Excessive silt build up at fence lines in diversion channel	allowed if not effecting cover system	Yes <input checked="" type="checkbox"/> * No <input type="checkbox"/>

\* Mark all areas of concern or requiring repairs on attached site map.

Annual Site Inspection - Apex Site - Pond 2

Hecia Mining Company - Long-Term Maintenance and Monitoring Plan

**Form 2 of 4 - Site Perimeter**

Inspection Date: <u>5-3-08</u>	
Inspector: <u>T. L. L. L.</u>	
<b>Visible Outlying Areas</b>	
Observed Condition:	<u>No problems - No. See germination</u>
Observed Damage:	<u>None</u>
May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>Property Boundary Fence and Gate (walk fence line)</b>	
Observed Condition:	<u>All fine</u>
Observed Damage:	<u>None</u>
Potential Corrective Actions:	<u>None</u>
May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>All Upgradient Areas (areas that drain onto property)</b>	
Observed Condition:	<u>All Fine</u>
Observed Damage:	<u>None</u>
May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

\* Mark all areas of concern or requiring repairs on attached site map.

Annual Site Inspection - Apex Site - Pond 2

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

**Form 3 of 4 - Impoundment**

Inspection Date: <u>5-3-08</u>			
Inspector: <u>TRIMAN</u>			
<b>Outslopes</b>			
Observed Performance:	Rock Cover Subsidence:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	Excessive Slope Movement (failure):	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	Gully Development:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	Observable Leachate (colored):	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	Excessive Siltation (at slope toe):	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Observed Damage: <u>None</u>			
Potential Corrective Actions: <u>None</u>			
<b>Top (top surface soils)</b>			
Observed Performance:	Cracking (>1" width):	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	Settlement / Evidence of Ponding:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	Erosion / Gullyng:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Observed Damage: <u>None</u>			
Potential Corrective Actions: <u>None</u>			
<b>Erosion Protection Layer (rock)</b>			
Observed Performance:	Rock Staying in Place:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	Rock Subsiding:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	Missing Rock:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Observed Damage: <u>None</u>			
Potential Corrective Actions: <u>None</u>			

Mark all areas of concern or requiring repairs on attached site map.

**Annual Site Inspection - Apex Site - Pond 2**

**Hecia Mining Company - Long-Term Maintenance and Monitoring Plan**

**Form 4 of 4 - Diversion Channel and Swales**

Date: <u>5-3-08</u>			
Inspector: <u>Tanner</u>			
<b>Diversion Channel</b>			
Observed Performance:	Erosion Protection in place:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	Normal Flow Channel in place:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	Encroaching on Site Fencing:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Observed Damage:	<u>None</u>		
Potential Corrective Actions:	<u>None</u>		
<b>Diversion Swales</b>			
Observed Performance:	Erosion Protection in place:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	Flow Channel Silting In:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	Head Cutting:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Observed Damage:	<u>None</u>		
Potential Corrective Actions:	<u>None</u>		

Mark all areas of concern or requiring repairs on attached site map.

Activity	2004 Budget	Revised Budget May 2004	Committed Cost this Period	Cumulative Committed Cost To Date 5-31-08	Forecasted Cost To Complete	Forecasted Final Cost	Remarks on Forecast to Complete
<b>Phases I through III (Completed February 2006)</b>							
Phase I - Drain Excess Liquid From Tailings	189,200	72,700		67,928	0	67,928	
Phases II, IIA + IIB - Evaporate Excess Liquid	6,000	8,000		242,882	0	242,882	
Phase III - Regrading & Final Cover System	337,000	342,050		504,742	0	504,742	
Field Indirect Costs	164,500	213,568		378,517	0	378,517	Includes Jan + Feb 2006 long term monitoring costs
Hecla Costs	18,700	18,700	0	33,324	0	33,324	
<b>Subtotal Phases I through III</b>	<b>715,400</b>	<b>655,018</b>	<b>0</b>	<b>1,227,393</b>	<b>0</b>	<b>1,227,393</b>	
<b>Long Term Monitoring (through FY 2010)</b>							
Site Inspections			141	5,352	1,903	7,255	
Settlement Monitoring				5,400	4,725	10,125	
<b>Consultant Support:</b>							
Annual Geotechnical Engineer Inspections			0	2,495	18,100	20,595	Includes settlement monitoring data analysis
Vegetation Monitoring			0	0	20,000	20,000	Allowance for surveys in FY 2008 - 2010
Site Conditions Review - MEI				6,474	3,327	9,801	
Site Conditions Review - SVL Analytical			0	2,079		2,079	
Erosion Repair Review - MEI				2,927	573	3,500	
Revegetation Review - Bamberg					3,500	3,500	
<b>Maintenance:</b>							
Erosion Repair Allowance				21,941	7,500	29,441	Erosion repair conducted April 2008
Revegetation Allowance				9,912	10,000	19,912	Revegetation conducted April 2008
<b>Hecla Project Management Costs:</b>							
Labor			0	2,266	7,909	10,175	
Travel expenses			0	0	1,312	1,312	
<b>Subtotal Long Term Monitoring</b>	<b>0</b>	<b>0</b>	<b>141</b>	<b>58,846</b>	<b>78,849</b>	<b>137,695</b>	
<b>Total Pond 2 Final Closure</b>	<b>715,400</b>	<b>655,018</b>	<b>141</b>	<b>1,286,239</b>	<b>78,849</b>	<b>1,365,088</b>	



**Fw: Apex - May Monthly**  
**Eric Johnson to: Amy Swanson, Monica Morales**

06/16/2008 11:05 AM

FYI.

----- Forwarded by Eric Johnson/ENF/R8/USEPA/US on 06/16/2008 11:04 AM -----



"Paul Glader"

<pglader@hecla-mining.com

>

06/16/2008 10:23 AM

To Eric Johnson/ENF/R8/USEPA/US@EPA

cc

Subject Apex - May Monthly



Apex Pond 2 - progress rpt 49 complete, may 2008.pdf